

# 全国第十九届重味物理和 CP 破坏研讨会

## Report of Contributions

Contribution ID: 35

Type: **not specified**

## 欢迎辞

*Friday, 9 December 2022 09:00 (5 minutes)*

**Presenter:** Prof. 副校长, 黄和 (南京师范大学)

**Session Classification:** 会议 20 周年纪念活动暨开幕式

Contribution ID: 36

Type: **not specified**

## 开幕辞

*Friday, 9 December 2022 09:05 (5 minutes)*

**Presenter:** 会红处长, 李 (国家基金委)

**Session Classification:** 会议 20 周年纪念活动暨开幕式

Contribution ID: 37

Type: **not specified**

## 开幕辞

*Friday, 9 December 2022 09:10 (5 minutes)*

**Presenter:** Prof. 涛, 黄 (中科院高能所)

**Session Classification:** 会议 20 周年纪念活动暨开幕式

Contribution ID: 38

Type: **not specified**

## 致辞

*Friday, 9 December 2022 09:15 (5 minutes)*

**Presenter:** Prof. 光达, 赵 (北京大学)

**Session Classification:** 会议 20 周年纪念活动暨开幕式

Contribution ID: 39

Type: **not specified**

## 致辞

*Friday, 9 December 2022 09:20 (5 minutes)*

**Presenter:** Prof. 原宁, 高 (北京大学)

**Session Classification:** 会议 20 周年纪念活动暨开幕式

Contribution ID: 40

Type: **not specified**

## 20 周年庆

*Friday, 9 December 2022 09:25 (5 minutes)*

**Presenter:** Prof. 振军, 肖 (南京师范大学)

**Session Classification:** 会议 20 周年纪念活动暨开幕式

Contribution ID: 41

Type: **not specified**

## Overview and prospects of LHCb results

**Presenter:** ZHANG, Yanxi (PKU)



Contribution ID: 42

Type: **not specified**

## Overview and prospects of LHCb results

**Presenter:** ZHANG, Yanxi (PKU)

Contribution ID: 43

Type: **not specified**

## Recent Theoretical Progress on heavy quark

**Presenter:** QIN, Qin (华中科技大学 (HUST))

Contribution ID: 44

Type: **not specified**

## Overview and prospects of LHCb results

*Friday, 9 December 2022 09:35 (25 minutes)*

**Presenter:** ZHANG, Yanxi (PKU)

**Session Classification:** Session 1 综述报告

Contribution ID: 45

Type: **not specified**

## Recent Theoretical Progress on heavy quark

*Friday, 9 December 2022 10:05 (25 minutes)*

**Presenter:** QIN, Qin (华中科技大学 (HUST))

**Session Classification:** Session 1 综述报告

Contribution ID: 46

Type: **not specified**

## Overview of BESIII results and prospects

*Friday, 9 December 2022 10:45 (25 minutes)*

**Presenter:** WANG, Dayong (Peking University)

**Session Classification:** Session 2 综述报告

Contribution ID: 47

Type: **not specified**

## Overview of Belle and Belle II results and prospects

*Friday, 9 December 2022 11:15 (25 minutes)*

**Presenter:** YAN, Wenbiao (University of Science and Technology of China)

**Session Classification:** Session 2 综述报告

Contribution ID: 48

Type: **not specified**

## Recent Progress on heavy quark on the Lattice

*Friday, 9 December 2022 11:45 (25 minutes)*

**Presenter:** 其安, 张 (北京航空航天大学)

**Session Classification:** Session 2 综述报告

Contribution ID: 49

Type: **not specified**

## LHCb 上味物理中的反常

*Friday, 9 December 2022 14:00 (15 minutes)*

**Presenter:** HE, Jibo (UCAS)

**Session Classification:** Session 3 底夸克与新物理



Contribution ID: 50

Type: **not specified**

## First result of scan data at around 10.75 GeV at Belle II

*Friday, 9 December 2022 14:20 (15 minutes)*

**Presenter:** 森, 贾 (复旦大学)

**Session Classification:** Session 3 底夸克与新物理

Contribution ID: 51

Type: **not specified**

## **Explaining the $b \rightarrow sll$ anomalies in $Z'$ scenarios with top-FC/FCNC couplings and its implications for the W-boson mass shift**

*Friday, 9 December 2022 14:40 (15 minutes)*

**Presenter:** 兴博, 袁 (Central China Normal University)

**Session Classification:** Session 3 底夸克与新物理

Contribution ID: 52

Type: **not specified**

## **Charmless two-body B meson decays from the perturbative QCD factorization approach**

*Friday, 9 December 2022 15:00 (15 minutes)*

**Presenter:** CHENG, Shan (Hunan University)

**Session Classification:** Session 3 底夸克与新物理

Contribution ID: 53

Type: **not specified**

## **CP violations corresponding to angular distributions asymmetries in multibody decays of bottom hadron**

*Friday, 9 December 2022 15:20 (15 minutes)*

**Presenter:** ZHANG (张), Zhen-Hua (振华) (University of South China (南华大学))

**Session Classification:** Session 3 底夸克与新物理

Contribution ID: 54

Type: **not specified**

## **A global analysis on flavor anomalies in $b \rightarrow s$ transitions**

*Friday, 9 December 2022 15:50 (10 minutes)*

**Presenter:** 乔毅, 温 (Jinan university)

**Session Classification:** Session 4 底夸克与新物理

Contribution ID: 55

Type: **not specified**

## Nonleptonic two-body decays of $\Lambda_b^0$ baryon in the perturbative QCD approach

*Friday, 9 December 2022 16:05 (10 minutes)*

**Presenter:** 超琪, 张 (华北理工大学)

**Session Classification:** Session 4 底夸克与新物理

Contribution ID: 56

Type: **not specified**

## Two-body decays $\Lambda_b^0 \rightarrow p\pi^-$ or $pK^-$ in pQCD

*Friday, 9 December 2022 16:20 (10 minutes)*

**Presenter:** 佳杰, 韩 (Lanzhou University)

**Session Classification:** Session 4 底夸克与新物理

Contribution ID: 57

Type: **not specified**

## Time-reversal asymmetries in $\Lambda_b^0 \rightarrow \Lambda(\rightarrow p\pi^-) l^+ l^-$

*Friday, 9 December 2022 16:35 (10 minutes)*

**Presenter:** 正乙, 魏 (HIAS)

**Session Classification:** Session 4 底夸克与新物理



Contribution ID: 58

Type: **not specified**

## **Semileptonic Charm Decays $D \rightarrow P/V/S$ and $D \rightarrow P_1 P_2$ with the $SU(3)$ Flavor Symmetry/Breaking**

*Friday, 9 December 2022 16:55 (15 minutes)*

**Presenter:** 茹敏, 王 (江西师范大学)

**Session Classification:** Session 5 底夸克与新物理

Contribution ID: 59

Type: **not specified**

## **Bottomed baryon decays with invisible Majorana fermions**

*Friday, 9 December 2022 17:15 (10 minutes)*

**Presenter:** LI, Geng (Harbin Institute of Technology)

**Session Classification:** Session 5 底夸克与新物理

Contribution ID: 60

Type: **not specified**

## **Inclusive weak-annihilation decays and lifetimes of beauty-charmed baryons**

*Friday, 9 December 2022 17:30 (10 minutes)*

**Presenter:** 国贺, 杨 (华中科技大学)

**Session Classification:** Session 5 底夸克与新物理

Contribution ID: 61

Type: **not specified**

## **A general amplitude analysis tool TF-PWA and its application**

*Friday, 9 December 2022 17:45 (10 minutes)*

**Presenter:** 艺, 蒋 (国科大杭州高等研究院)

**Session Classification:** Session 5 底夸克与新物理

Contribution ID: 62

Type: **not specified**

## **A study on neutrinoless double beta decay and neutron-antineutron oscillation**

*Friday, 9 December 2022 18:00 (10 minutes)*

**Presenter:** 雨奇, 肖 (Central China Normal University)

**Session Classification:** Session 5 底夸克与新物理

Contribution ID: 63

Type: **not specified**

## Recent CPV measurements at LHCb

*Saturday, 10 December 2022 09:00 (15 minutes)*

**Presenter:** 洁晟, 俞 (湖南大学)

**Session Classification:** Session 1 CP 破坏和其它弱衰变

Contribution ID: 64

Type: **not specified**

## $\gamma$ measurements at LHCb

*Saturday, 10 December 2022 09:20 (15 minutes)*

**Presenter:** ZHANG, Shunan (Peking University)

**Session Classification:** Session 1 CP 破坏和其它弱衰变

Contribution ID: 65

Type: **not specified**

## **Strong phase measurement of D decays at BESIII**

*Saturday, 10 December 2022 09:40 (15 minutes)*

**Presenter:** ZHANG, Yu (University of South China)

**Session Classification:** Session 1 CP 破坏和其它弱衰变



Contribution ID: 66

Type: **not specified**

## **Probing the new physics through the exclusive decay of Higgs and Z boson**

*Saturday, 10 December 2022 10:00 (15 minutes)*

**Presenter:** YAN, Bin (IHEP)

**Session Classification:** Session 1 CP 破坏和其它弱衰变

Contribution ID: 67

Type: **not specified**

## 格点场论模拟早期宇宙电弱对称性破缺

*Saturday, 10 December 2022 10:30 (15 minutes)*

**Presenter:** 立功, 边 (重庆大学)

**Session Classification:** Session 2 CP 破坏和新物理

Contribution ID: 68

Type: **not specified**

## Type II Seesaw leptogenesis

*Saturday, 10 December 2022 10:50 (15 minutes)*

**Presenter:** 成成, 韩 (Sun Yat-sen University)

**Session Classification:** Session 2 CP 破坏和新物理

Contribution ID: 69

Type: **not specified**

## **CP violation induced by T-odd correlations and its baryonic application**

*Saturday, 10 December 2022 11:10 (15 minutes)*

**Presenter:** WANG, Jian-Peng (Lanzhou University)

**Session Classification:** Session 2 CP 破坏和新物理

Contribution ID: 70

Type: **not specified**

## **Probing sub-GeV dark sector particles at Belle II**

*Saturday, 10 December 2022 11:30 (10 minutes)*

**Presenter:** 锦汉, 梁 (Nanjing University)

**Session Classification:** Session 2 CP 破坏和新物理

Contribution ID: 71

Type: **not specified**

## Correlating the CDF W-boson mass shift with the $b \rightarrow s l^+ l^-$ anomalies

*Saturday, 10 December 2022 11:45 (10 minutes)*

**Presenter:** 泽浚, 谢 (华中师范大学)

**Session Classification:** Session 2 CP 破坏和新物理

Contribution ID: 72

Type: **not specified**

## **Combined explanations of B-physics anomalies, $g-2$ and neutrino masses**

*Saturday, 10 December 2022 12:00 (10 minutes)*

**Presenter:** 泽坤, 刘 (华中师范大学)

**Session Classification:** Session 2 CP 破坏和新物理

Contribution ID: 73

Type: **not specified**

## Recent studies on $\Lambda_c$ decays at BESIII

*Saturday, 10 December 2022 14:00 (15 minutes)*

**Presenter:** LI, Pei-Rong (Lanzhou University)

**Session Classification:** Session 3 重味粲夸克



Contribution ID: 74

Type: **not specified**

## Recent charm physics results at LHCb

*Saturday, 10 December 2022 14:20 (15 minutes)*

**Presenter:** SUN, Liang (Wuhan University)

**Session Classification:** Session 3 重味粲夸克

Contribution ID: 75

Type: **not specified**

## **Recent results of charmed baryons focusing on new baryon at Belle**

*Saturday, 10 December 2022 14:40 (15 minutes)*

**Presenter:** LI, Yubo (Fudan University)

**Session Classification:** Session 3 重味粲夸克

Contribution ID: 76

Type: **not specified**

## Hadronic decays of charmed meson at BESIII

*Saturday, 10 December 2022 15:00 (15 minutes)*

**Presenter:** LU, Yu (IHEP\_EPC)

**Session Classification:** Session 3 重味粲夸克

Contribution ID: 77

Type: **not specified**

## $\Xi_c \rightarrow \Xi$ in QCD sum rules

*Saturday, 10 December 2022 15:20 (15 minutes)*

**Presenter:** 振兴, 赵 (内蒙古大学)

**Session Classification:** Session 3 重味粲夸克

Contribution ID: 78

Type: **not specified**

## **Measurement of decay asymmetry parameter and CP violation in charmed baryon decays**

*Saturday, 10 December 2022 15:50 (15 minutes)*

**Presenter:** LI, Longke (Univ. of Cincinnati)

**Session Classification:** Session 4 重味粲夸克

Contribution ID: 79

Type: **not specified**

## Charm leptonic and rare decays at BESIII

*Saturday, 10 December 2022 16:10 (15 minutes)*

**Presenter:** YOU, Zhengyun (Sun Yat-Sen University)

**Session Classification:** Session 4 重味粲夸克

Contribution ID: 80

Type: **not specified**

## Resolving puzzle in $\Xi_c^0 \rightarrow \Xi^- e^+ \nu_e$ with $\Xi_c - \Xi_c^*$ mixing

*Saturday, 10 December 2022 16:30 (15 minutes)*

**Presenter:** 佳韦, 刘 (University of Chinese Academy of Sciences)

**Session Classification:** Session 4 重味粲夸克

Contribution ID: 81

Type: **not specified**

## **SU(3) symmetry and its breaking effects in semileptonic heavy baryon decays**

*Saturday, 10 December 2022 16:50 (10 minutes)*

**Presenter:** 飞, 黄 (Shanghai Jiao Tong University)

**Session Classification:** Session 4 重味粲夸克



Contribution ID: 82

Type: **not specified**

## The W boson Mass and Muon $g-2$ : Hadronic Uncertainties or New Physics ?

*Saturday, 10 December 2022 17:10 (15 minutes)*

**Presenter:** 致廷, 卢 (南京师范大学)

**Session Classification:** Session 5 重味粲夸克和新物理

Contribution ID: 83

Type: **not specified**

## Charmed baryon decays in view of SU(3) flavor symmetry

*Saturday, 10 December 2022 17:30 (10 minutes)*

**Presenter:** ZHONG, Huiling (N)

**Session Classification:** Session 5 重味粲夸克和新物理

Contribution ID: 84

Type: **not specified**

## Bc 和 Bc\* 介子衰变常数的两圈修正和唯象研究

*Saturday, 10 December 2022 17:45 (10 minutes)*

**Presenter:** 伟, 陶 (njnu)

**Session Classification:** Session 5 重味粲夸克和新物理

Contribution ID: 85

Type: **not specified**

## Explaining the $b \rightarrow s\ell + \ell^-$ anomalies in $Z'$ scenarios with top-FCNC couplings

*Saturday, 10 December 2022 18:00 (10 minutes)*

**Presenter:** 萌, 沈 (Central China Normal University)

**Session Classification:** Session 5 重味粲夸克和新物理

Contribution ID: 86

Type: **not specified**

## Hadron spectroscopy and exotics at LHCb

*Sunday, 11 December 2022 09:00 (15 minutes)*

**Presenter:** LI, Yiming (IHEP)

**Session Classification:** Session 1 非重味弱衰变

Contribution ID: 87

Type: **not specified**

## Recent XYZ and charmonium results at BESIII

*Sunday, 11 December 2022 09:20 (15 minutes)*

**Presenter:** ZHU, Kai (高能所)

**Session Classification:** Session 1 非重味弱衰变

Contribution ID: **88**

Type: **not specified**

## **Study of the pentaquark states $Pcs$**

*Sunday, 11 December 2022 09:40 (15 minutes)*

**Presenter:** XIAO, Chu-Wen (Central South University)

**Session Classification:** Session 1 非重味弱衰变

Contribution ID: 89

Type: **not specified**

## **Evolution of charm-meson ratios in an expanding hadron gas**

*Sunday, 11 December 2022 10:00 (15 minutes)*

**Presenter:** 军, 蒋 (山东大学)

**Session Classification:** Session 1 非重味弱衰变



Contribution ID: 90

Type: **not specified**

## Glauber 胶子的因子化与超级领头对数重求和

*Sunday, 11 December 2022 10:30 (15 minutes)*

**Presenter:** SHAO, Dingyu (CERN, Theoretical Physics Department)

**Session Classification:** Session 2 非重味弱衰变

Contribution ID: 91

Type: **not specified**

## **TMDWFs at one-loop in Large Momentum Effective Theory**

*Sunday, 11 December 2022 11:10 (10 minutes)*

**Presenter:** 志福, 邓 (上海交通大学)

**Session Classification:** Session 2 非重味弱衰变

Contribution ID: 92

Type: **not specified**

## Feynman Integrals of Grassmannians

*Sunday, 11 December 2022 10:50 (15 minutes)*

**Presenter:** ZHANG, Hai-Bin (河北大学 Hebei University)

**Session Classification:** Session 2 非重味弱衰变

Contribution ID: 93

Type: **not specified**

## Two-loop amplitudes for $tW$ production at Hardron colliders

*Sunday, 11 December 2022 11:25 (10 minutes)*

**Presenter:** 焯凡, 王

**Session Classification:** Session 2 非重味弱衰变

Contribution ID: 94

Type: **not specified**

## **Light double-gluon hybrid states from QCD sum rule**

*Sunday, 11 December 2022 11:40 (10 minutes)*

**Presenter:** 妞, 苏 (东南大学)

**Session Classification:** Session 2 非重味弱衰变

Contribution ID: 95

Type: **not specified**

## **Molecular state interpretation of charmed baryons in the quark model**

*Sunday, 11 December 2022 11:55 (10 minutes)*

**Presenter:** 晔, 颜 (N)

**Session Classification:** Session 2 非重味弱衰变

Contribution ID: 96

Type: **not specified**

## Heavy Quark Physics in Heavy Ion Collision

*Sunday, 11 December 2022 14:00 (15 minutes)*

**Presenter:** 广友, 秦 (华中师范大学)

**Session Classification:** Session 3 未来升级和展望

Contribution ID: 97

Type: **not specified**

## Recent results of heavy flavor and CPV at CMS

*Sunday, 11 December 2022 14:20 (15 minutes)*

**Presenter:** HU, Zhen (Tsinghua University)

**Session Classification:** Session 3 未来升级和展望



Contribution ID: 98

Type: **not specified**

## Recent results of heavy flavor and CPV at ATLAS

*Sunday, 11 December 2022 14:40 (15 minutes)*

**Presenter:** XU, Yue (Tsinghua University)

**Session Classification:** Session 3 未来升级和展望

Contribution ID: 99

Type: **not specified**

## **New flavor opportunities at future Z-factories**

*Sunday, 11 December 2022 15:00 (15 minutes)*

**Presenter:** LI, Lingfeng (Brown University)

**Session Classification:** Session 3 未来升级和展望

Contribution ID: 100

Type: **not specified**

## **Advances in the LQCD calculation of light cone distribution**

*Sunday, 11 December 2022 15:20 (15 minutes)*

**Presenter:** 俊, 华 (South China Normal University)

**Session Classification:** Session 3 未来升级和展望

Contribution ID: **101**

Type: **not specified**

## **Hyperon CPV at BESIII**

*Sunday, 11 December 2022 16:00 (15 minutes)*

**Presenter:** ZHANG, Jianyu

**Session Classification:** Session 4 未来升级和展望

Contribution ID: **102**

Type: **not specified**

## **The STCF prospect**

*Sunday, 11 December 2022 16:20 (25 minutes)*

**Presenter:** ZHENG, Yangheng (University of Chinese Academy of Sciences)

**Session Classification:** Session 4 未来升级和展望

Contribution ID: **103**

Type: **not specified**

## 申办报告

*Sunday, 11 December 2022 16:50 (15 minutes)*

**Presenter:** 成平, 沈 (复旦大学)

**Session Classification:** Session 4 未来升级和展望

Contribution ID: **104**

Type: **not specified**

## 会议总结

*Sunday, 11 December 2022 17:10 (30 minutes)*

**Presenter:** YU, Fu-Sheng (Lanzhou University)

**Session Classification:** Session 4 未来升级和展望